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NORTH AMERICAN AIR DEFENSE COMMAND

W I R

WEEKLY INTELLIGENCE REVIEW (U)

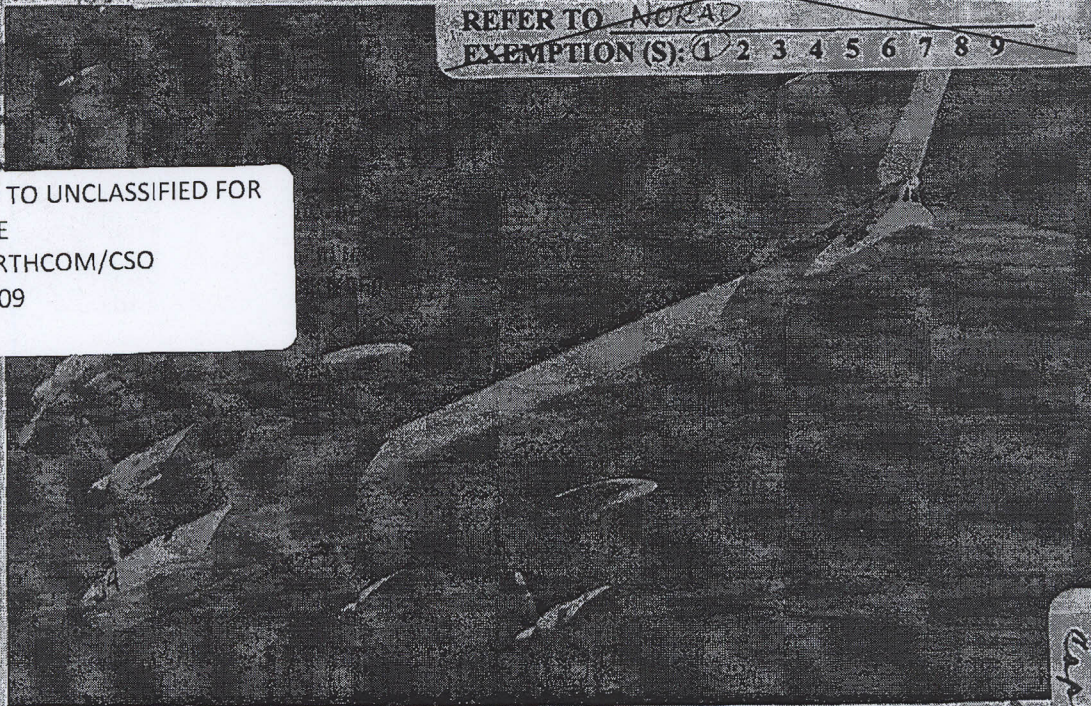
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NORAD

Weekly
Intelligence
Review

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Issue No. 33/64, 14 August 1964

The WIR in Brief

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MISSILE RANGE FIRING LOG PRESENTED
For period 4-9 August.

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Space

ESTIMATED CONFIGURATIONS OF SOVIET
SPACE VEHICLES PRESENTED
SS-6 ICBM most often used for propulsion.

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COVER: BEAR 4-turboprop heavy bomber.
(OFFICIAL USE ONLY)
NOTE: Pages 30, 31, 34, 35, 38, and 39
of this issue are blank.

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Missile Range Firing Log Presented

US radar detected the following Soviet missile launches between 2400Z, 4 August, and 2400Z, 9 August.

<u>Date & Time</u>	<u>Vehicle</u>	<u>Launch Point</u>	<u>Distance</u>
05 Aug, 0205Z	SS-9 ICBM	Tyuratam	7,000 n. m.
06 Aug, 0933Z	SS-4 MRBM	Kapustin Yar	1,050 n. m.

Revision and Correction of Last Week's Log:

- The firing log in last week's WIR inadvertently reported that Cosmos 36 was launched from Tyuratam by an SS-6 ICBM. It was actually launched from Kapustin Yar, not by an SS-6.
- The ICBM launching of 0827Z, 31 July, reported to be of "unknown type," was probably an SS-9.

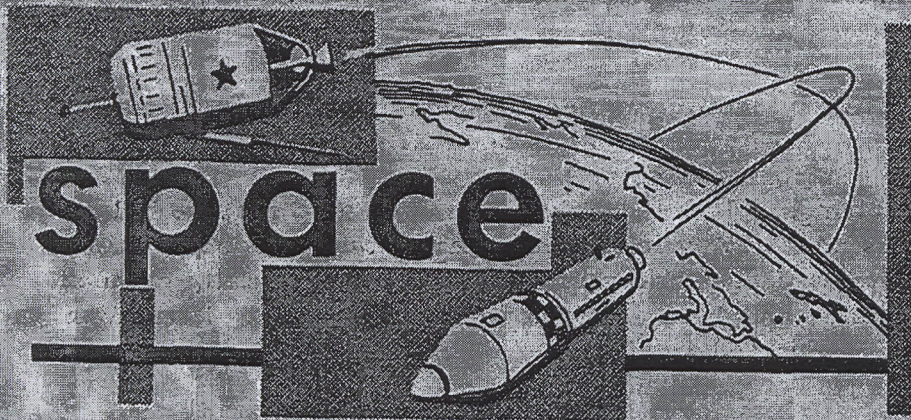
(Shemya & Diyarbakir RADINT)

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significant
intelligence
on space
developments
and trends

Estimated Configurations of Soviet Space Vehicles Presented

The series of drawings on page 37 shows the estimated configurations of Soviet space vehicles launched to date, except for Sputniks 1 and 2 and the Electron series of vehicles.

The thrust and weight of these vehicles are estimated as follows:

	<u>Thrust (lbs)</u>	<u>Gross Weight (lbs)</u>
SS-6 ICBM booster/sustainer	895,000	500,000
Lunik 3d stage	11,000	17,000
Venik 3d stage	65,000	51,000
4th stage (for injecting lunar and inter- planetary probes into transfer trajectories)	15,700	13,000
Recoverable payloads, including manned Vostoks, Tyuratam Cosmooses, and Spaceships of 1960-1961	(retro- thrust) 3,000	10,400
Polyot stage (for maneuvering)	?	6,400
Kapustin Yar (1st stage) Cosmooses	?	?
Kapustin Yar (2d stage) Cosmooses	?	?

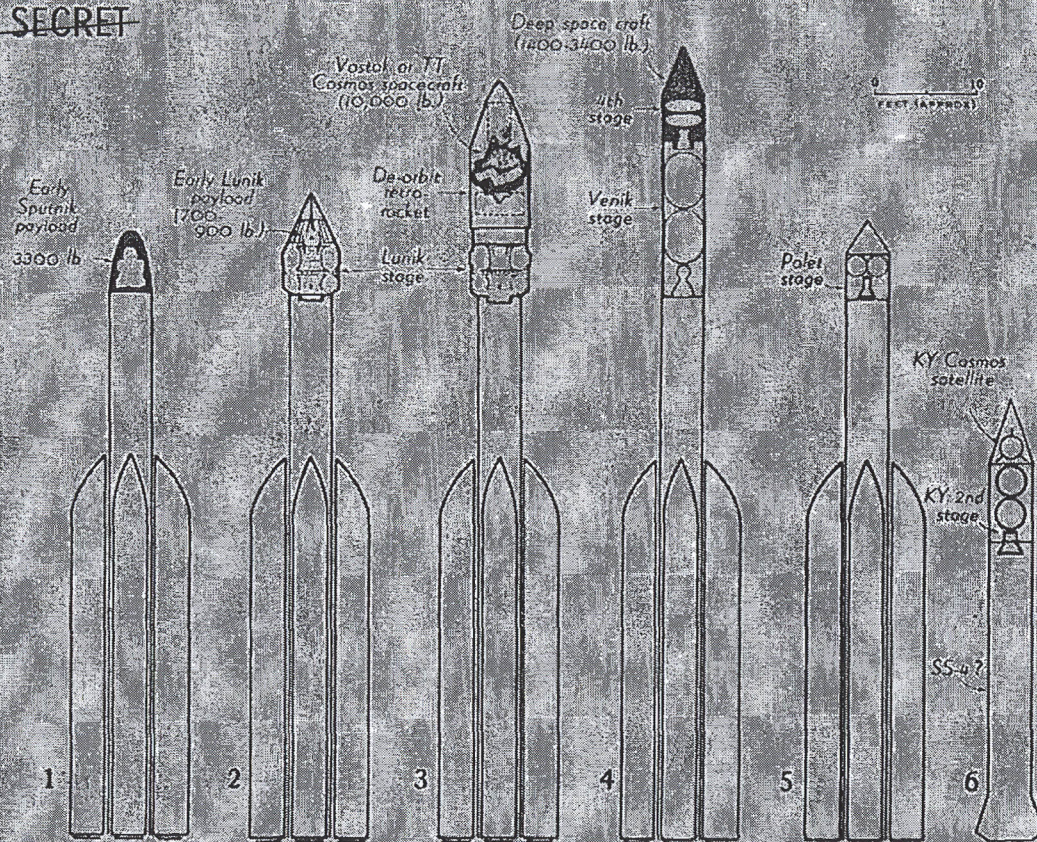
(CIA; Army Missile Command)

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Configurations of Soviet Space Vehicles (Estimated)

Omitted:

Sputniks 1 and 2 (launched 1957) -- launch vehicle not identified.

Electrons 1-4 (2 launches in 1964). In each case, an SS-6 booster-sustainer launched 2 payloads, 1 during powered flight, 1 afterwards. Configuration unknown.

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WIR 33/64

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1. Sputnik 3. Orbited by SS-6 ICBM booster and sustainer.
2. Luniks 1, 2, & 3 (direct ascents). Launched by SS-6 booster and sustainer and Lunik 3d stage.
3. Recoverable vehicles -- the manned Vostoks, the Korabls (Spaceships 1960-1961), and most Tyuratam Cosmooses. Launched by SS-6, injected into orbit by Lunik 3d stage.
4. Parking-orbit vehicles -- Venus 1, Mars 1, Lunik 4, Zond 1, and numerous failed interplanetary and lunar probe attempts. Injected into orbit by heavy Venik 3d stages and into transfer trajectory by 4th stage.
5. Maneuverable vehicles -- Polyots 1 and 2. Orbited by SS-6; Polyot upper stage intended to furnish propulsion for maneuver.
6. Kapustin Yar-launched Cosmooses. 1st stage probably SS-4 MRBM or SS-5 IRBM.